

[illegible]

```

EEEEEEEEEE XX      XX      TTTTTTTTTT  I I I I I  DDDDDDDD  XX      XX
EEEEEEEEEE XX      XX      TTTTTTTTTT  I I I I I  DDDDDDDD  XX      XX
EE          XX      XX      TT          II      DD          DD  XX      XX
EE          XX      XX      TT          II      DD          DD  XX      XX
EE          XX      XX      TT          II      DD          DD  XX      XX
EE          XX      XX      TT          II      DD          DD  XX      XX
EEEEEEEEEE      XX      TT          II      DD          DD      XX      XX
EEEEEEEEEE      XX      TT          II      DD          DD      XX      XX
EE          XX      XX      TT          II      DD          DD  XX      XX
EE          XX      XX      TT          II      DD          DD  XX      XX
EE          XX      XX      TT          II      DD          DD  XX      XX
EE          XX      XX      TT          II      DD          DD  XX      XX
EE          XX      XX      TT          II      DD          DD  XX      XX
EEEEEEEEEE XX      XX      TT          I I I I I  DDDDDDDD  XX      XX
EEEEEEEEEE XX      XX      TT          I I I I I  DDDDDDDD  XX      XX

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LL               IIIIII               SSSSSSSS
LL               IIIIII               SSSSSSSS
LL               II                    SS
LL               II                    SS
LL               II                    SS
LL               II                    SS
LL               II                    SSSSSS
LL               II                    SSSSSS
LL               II                    SS
LL               II                    SS
LL               II                    SS
LL               II                    SS
LLLLLLLLLLLLLL  IIIIII               SSSSSSSS
LLLLLLLLLLLLLL  IIIIII               SSSSSSSS

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.....

```
0001 0 MODULE EXTIDX (
0002 0     LANGUAGE (BLISS32),
0003 0     IDENT = 'V04-000'
0004 0 ) =
0005 1 BEGIN
0006 1
0007 1
0008 1 *****
0009 1 *
0010 1 *  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0027 1 *
0028 1 *
0029 1 *****
0030 1
0031 1 ++
0032 1
0033 1 FACILITY: F11ACP Structure Level 2
0034 1
0035 1 ABSTRACT:
0036 1
0037 1     This routine extends the volume's index file.
0038 1
0039 1 ENVIRONMENT:
0040 1
0041 1     STARLET operating system, including privileged system services
0042 1     and internal exec routines.
0043 1
0044 1 --
0045 1
0046 1
0047 1 AUTHOR: Andrew C. Goldstein,  CREATION DATE: 14-Apr-1977  10:44
0048 1
0049 1 MODIFIED BY:
0050 1
0051 1     V03-006 ACG0438      Andrew C. Goldstein,   2-Aug-1984  11:54
0052 1     Add check of index file bitmap size to max files check
0053 1
0054 1     V03-005 CDS0003      Christian D. Saether    25-Apr-1984
0055 1     Long addressing mode for certain external routines.
0056 1
0057 1     V03-004 ACG0409      Andrew C. Goldstein,    21-Mar-1984  21:58
```

EXTIDX
V04-000

F 7
16-Sep-1984 00:27:54 VAX-11 Bliss-32 V4.0-742 Page 2
14-Sep-1984 12:30:24 DISK\$VMSMASTER:[F11X.SRC]EXTIDX.B32;1 (1)

```

58 0058 1 Remove file number parameter; set index file EOF to end.
59 0059 1
60 0060 1 V03-003 CDS0002 Christian D. Saether 30-Dec-1983
61 0061 1 Use L_NORM linkage and BIND_COMMON macro.
62 0062 1
63 0063 1 V03-002 CDS0001 Christian D. Saether 20-Sep-1983
64 0064 1 Serialize reading of index file header.
65 0065 1 Stuff FH2$L_HIGHWATER if appropriate.
66 0066 1
67 0067 1 V03-001 ACG0274 Andrew C. Goldstein, 23-Mar-1982 11:25
68 0068 1 Allow use of alternate index file header
69 0069 1
70 0070 1 V02-002 STJ34965 Steven T. Jeffreys, 28-Feb-1981
71 0071 1 Temporary fix to set FIB$V_NOCHARGE bit for the
72 0072 1 index file, so that it will not be charged for diskquota.
73 0073 1
74 0074 1 B0101 ACG0121 Andrew C. Goldstein, 16-Jan-1980 21:39
75 0075 1 Make context save and restore into subroutines
76 0076 1
77 0077 1 B0100 ACG00001 Andrew C. Goldstein, 10-Oct-1978 20:00
78 0078 1 Previous revision history moved to [F11B.SRC]F11B.REV
79 0079 1 **
80 0080 1
81 0081 1
82 0082 1 LIBRARY 'SYSS$LIBRARY:LIB.L32';
83 0083 1 REQUIRE 'SRC$:FCPDEF.B32';
```

```

85 1074 1 GLOBAL ROUTINE EXTEND_INDEX : L_NORM NOVALUE =
86 1075 1
87 1076 1 ++
88 1077 1
89 1078 1 FUNCTIONAL DESCRIPTION:
90 1079 1
91 1080 1 This routine extends the volume's index file.
92 1081 1
93 1082 1 CALLING SEQUENCE:
94 1083 1 EXTEND_INDEX ()
95 1084 1
96 1085 1 INPUT PARAMETERS:
97 1086 1 NONE
98 1087 1
99 1088 1 IMPLICIT INPUTS:
100 1089 1 CURRENT_VCB: address of volume VCB
101 1090 1
102 1091 1 OUTPUT PARAMETERS:
103 1092 1 NONE
104 1093 1
105 1094 1 IMPLICIT OUTPUTS:
106 1095 1 NONE
107 1096 1
108 1097 1 ROUTINE VALUE:
109 1098 1 NONE
110 1099 1
111 1100 1 SIDE EFFECTS:
112 1101 1 index file extended, index file window and index file FCB modified
113 1102 1
114 1103 1 --
115 1104 1
116 1105 2 BEGIN
117 1106 2
118 1107 2 LOCAL
119 1108 2 MAX_FILES,          ! max number of files on volume
120 1109 2 FILESIZE,        ! size of index file after extend.
121 1110 2 FIB              : REF BBLOCK,  ! address of FIB for extend operation
122 1111 2 HEADER           : REF BBLOCK,  ! address of index file header
123 1112 2 FCB             : REF BBLOCK,  ! address of index file FCB
124 1113 2 WINDOW          : REF BBLOCK,  ! address of index file window
125 1114 2 FREE_POINTERS,  ! number of free retrieval pointers
126 1115 2                 ! in index file window
127 1116 2 FILES_TO_GO,     ! number of files likely to be created
128 1117 2                 ! on this volume
129 1118 2 BLOCKS_NEEDED;    ! amount to extend index file by
130 1119 2
131 1120 2 BIND_COMMON;
132 1121 2
133 1122 2 EXTERNAL ROUTINE
134 1123 2 SERIAL_FILE      : L_NORM,
135 1124 2 RELEASE_SERIAL_LOCK : L_NORM,
136 1125 2 SAVE_CONTEXT    : L_NORM,      ! save reentrant context area
137 1126 2 RESTORE_CONTEXT : L_NORM,      ! restore reentrant context area
138 1127 2 READ_IDX_HEADER : L_NORM,      ! read index file header
139 1128 2 TURN_WINDOW      : L_NORM ADDRESSING_MODE (GENERAL), ! update file window
140 1129 2 EXTEND           : L_NORM,      ! extend a file
141 1130 2 CHECKSUM          : L_NORM,      ! compute file header checksum
```

```
1131 2      WRITE_HEADER      : L_NORM,      ! write back file header
1132 2      RESET_LBN        : L_NORM,      ! reassign LBN of buffer
1133 2      WRITE_BLOCK       : L_NORM,      ! write a disk block
1134 2      INVALIDATE       : L_NORM,      ! invalidate buffer
1135 2      INIT_FCB2         : L_NORM;      ! update file control block
1136 2
1137 2
1138 2      ! Extending the index file is a secondary operation, so we must save away the
1139 2      ! primary context, and then set up the appropriate context for this operation.
1140 2      !
1141 2
1142 2      SAVE_CONTEXT ();
1143 2      FIB = SECOND FIB;
1144 2      CH$FILL (0, FIB$C_LENGTH, .FIB);
1145 2      FIB[FIB$W_FID_NUM] = 1;
1146 2      FIB[FIB$W_FID_SEQ] = 1;
1147 2
1148 2      PRIMARY_FCB = FCB = .CURRENT_VCB[VCB$L_FCBFL];
1149 2      CURRENT_WINDOW = WINDOW = .FCB[FCB$L_WCFL];
1150 2
1151 2      ! Serialize on the index file header.
1152 2      !
1153 2
1154 2      PRIM_LCKINDX = SERIAL_FILE (FIB [FIB$W_FID]);
1155 2
1156 2      ! Read the index file header.
1157 2      !
1158 2
1159 2      HEADER = READ_IDX_HEADER ();
1160 2
1161 2      ! Turn the index file window to VBN 3. Then compute the number of free
1162 2      ! retrieval pointers in the index file window, discounting pointers (if
1163 2      ! any) that only map the boot and home block.
1164 2      !
1165 2
1166 2      KERNEL_CALL (TURN_WINDOW, .WINDOW, .HEADER, 3, 1);
1167 2
1168 2      FREE_POINTERS = (.WINDOW[WCBS$W_SIZE]-WCBS$C_LENGTH)/6 - .WINDOW[WCBS$W_NMAP];
1169 2      IF .WINDOW[WCBS$L_STVBN] + .WINDOW[WCBS$W_P1_COUNT] LEQU 3
1170 2      THEN
1171 2          BEGIN
1172 2              FREE_POINTERS = .FREE_POINTERS + 1;
1173 2              IF .WINDOW[WCBS$L_STVBN] + .WINDOW[WCBS$W_P1_COUNT] + .WINDOW[WCBS$W_P2_COUNT] LEQU 3
1174 2              THEN FREE_POINTERS = .FREE_POINTERS + 1;
1175 2          END;
1176 2      IF .FREE_POINTERS LEQ 0 THEN FREE_POINTERS = 1;
1177 2
1178 2      ! Check the amount of index file (as determined by max files and the
1179 2      ! size of the index file bitmap).
1180 2      !
1181 2
1182 2      MAX_FILES = MINU (.CURRENT_VCB[VCB$L_MAXFILES], .CURRENT_VCB[VCB$B_IBMAPSIZE] * 4096);
1183 2      FILES_TO_GO = .MAX_FILES - .FCB[FCB$C_FILESIZE]
1184 2      + .CURRENT_VCB[VCB$B_IBMAPSIZE] + .CURRENT_VCB[VCB$W_CLUSTER]*4;
1185 2      IF .FILES_TO_GO LEQ 0
1186 2      THEN ERR_EXIT (SS$ _IDXFILEFULL);
1187 2
```

```
1188 2 ! Compute the number of files likely to still be created on the volume. This
1189 2 ! is the minimum of the number permitted minus the current number and a
1190 2 ! fraction of the number of free blocks on the volume. The amount to extend
1191 2 ! the index file by is this quantity divided by the number of available
1192 2 ! retrieval pointers in the index file window.
1193 2 !
1194 2
1195 2 FILES_TO_GO = MINU (.FILES_TO_GO,
1196 2 .CURRENT_VCB[VCB$$_FREE] / .CURRENT_VCB[VCB$$_CLUSTER] / 4);
1197 2
1198 2 BLOCKS_NEEDED = MINU (.FILES_TO_GO / .FREE_POINTERS, 1000);
1199 2
1200 2 ! Build the extend control in the FIB and call the EXTEND routine.
1201 2 !
1202 2
1203 2 FIB[FIB$$_EXSZ] = .BLOCKS_NEEDED;
1204 2 FIB[FIB$$_ALCON] = 1;
1205 2 FIB[FIB$$_ALCONB] = 1;
1206 2 FIB[FIB$$_ALDEF] = 1;
1207 2 FIB[FIB$$_NOHDREXT] = 1;
1208 2
1209 2 ! Set NOCHARGE bit so the index file will not be charged for diskquota.
1210 2 !
1211 2 FIB [FIB$$_NOCHARGE] = 1;
1212 2
1213 2 EXTEND (.FIB, .HEADER);
1214 2
1215 2 FILESIZE = .FIB[FIB$$_EXSZ] + .FIB[FIB$$_EXVBN] - 1;
1216 2 BBLOCK [HEADER[FH2$$_RECATTR], FAT$$_HIBLK] = ROT (.FILESIZE, 16);
1217 2 IF NOT .CURRENT_VCB[VCB$$_NOHIGHWATER]
1218 2 THEN BBLOCK [HEADER[FH2$$_RECATTR], FAT$$_EFBLK] = ROT (.FILESIZE+1, 16);
1219 2
1220 2 ! If this file header supports it, stuff the high water field to
1221 2 ! be the allocated size.
1222 2 !
1223 2
1224 2 IF .HEADER [FH2$$_IDOFFSET] GEQU ($BYTEOFFSET (FH2$$_HIGHWATER)+4)/2
1225 2 THEN
1226 2     HEADER [FH2$$_HIGHWATER] = .FILESIZE + 1;
1227 2
1228 2 ! Now write the header, update the FCB, and restore the primary context.
1229 2 !
1230 2
1231 2 CHECKSUM (.HEADER);
1232 2 WRITE_HEADER ();
1233 2 RESET_LBN (.HEADER, .CURRENT_VCB[VCB$$_IXHDR2LBN]);
1234 2 WRITE_BLOCK (.HEADER);
1235 2 INVALIDATE (.HEADER);
1236 2 KERNEL_CALL (INIT_FCB2, .FCB, .HEADER);
1237 2
1238 2 RELEASE_SERIAL_LOCK (.PRIM_LCKINDX);
1239 2 PRIM_LCKINDX = 0;
1240 2
1241 2 RESTORE_CONTEXT ();
1242 2 USER_STATUS[1] = 0;
1243 2
1244 1 END;
```

! end of routine EXTEND_INDEX

0040	8F	00	0000G	58	80	AA	9E	00000	.TITLE	EXTIDX	
				57	98	AA	9E	00006	.IDENT	\V04-000\	
				CF		00	FB	0000A	.EXTRN	SERIAL FILE, RELEASE SERIAL LOCK	
				56	0244	CA	9E	0000F	.EXTRN	SAVE_CONTEXT, RESTORE_CONTEXT	
				6E		00	2C	00014	.EXTRN	READ_IDX HEADER	
						66		0001B	.EXTRN	TURN_WINDOW, EXTEND	
	04	A6	00010001	8F	D0	8F	D0	0001C	.EXTRN	CHECKSUM, WRITE HEADER	
		54	00	B7	D0	54	D0	00024	.EXTRN	RESET_LBN, WRITE_BLOCK	
	08	AA		54	D0	54	D0	00028	.EXTRN	INVALIDATE, INIT_FCB2	
		52	10	A4	D0	52	D0	0002C	.PSECT	\$CODE\$,NOWRT,2	
	0C	AA		52	D0	A6	9F	00034	.ENTRY	EXTEND_INDEX, Save R2,R3,R4,R5,R6,R7,R8	1074
				A6	9F	01	FB	00037	MOVAB	-128(BASE), R8	1118
	0000G	CF		01	FB	50	D0	0003C	MOVAB	-104(BASE), R7	
	18	AA		50	D0	00	FB	00040	CALLS	#0, SAVE_CONTEXT	1142
	0000G	CF		50	D0	00	FB	00045	MOVAB	580(BASE), FIB	1143
		53		01	DD	50	D0	00048	MOVCS	#0, (SP), #0, #64, (FIB)	1144
				03	DD	01	DD	0004A			
				0C	BB	03	DD	0004C	MOVL	#65537, 4(FIB)	1145
	00000000G	00		04	FB	03	DD	0004E	MOVL	20(R7), FCB	1148
		50	08	A2	3C	04	FB	00055	MOVL	FCB, 8(BASE)	
		50		30	C2	05	C2	00059	MOVL	16(FCB), WINDOW	1149
		50		06	C6	05	C6	0005C	MOVL	WINDOW, 12(BASE)	
		55	16	A2	3C	05	C3	0005F	PUSHAB	4(FIB)	1154
		50		55	C3	05	C3	00063	CALLS	#1, SERIAL_FILE	
55		50	30	A2	3C	05	C3	00067	MOVL	R0, 24(BASE)	
		50	2C	A2	C0	05	C0	0006B	CALLS	#0, READ_IDX_HEADER	1159
		03		50	D1	05	D1	0006F	MOVL	R0, HEADER	
				18	1A	05	D1	00072	PUSHL	#1	1166
				55	D6	05	D6	00074	PUSHL	#3	
		50	30	A2	3C	05	D6	00076	PUSHR	#M<R2,R3>	
		50	2C	A2	C0	05	C0	0007A	CALLS	#4, TURN_WINDOW	
		51	36	A2	3C	05	C0	0007E	MOVZWL	8(WINDOW), R0	1168
		50		51	C0	05	C0	00082	SUBL2	#48, R0	
		03		50	D1	05	D1	00085	DIVL2	#6, R0	
				02	1A	05	D6	00088	MOVZWL	22(WINDOW), FREE_POINTERS	
				55	D6	05	D5	0008A	SUBL3	FREE_POINTERS, R0, FREE_POINTERS	
				55	D5	05	D5	0008C	MOVZWL	48(WINDOW), R0	1169
				03	14	05	D1	0008E	ADDL2	44(WINDOW), R0	
				01	D0	05	D1	00090	CMP	R0, #3	
				67	D0	05	D0	00093	BGTRU	1\$	
									INCL	FREE_POINTERS	1172
									MOVZWL	48(WINDOW), R0	1173
									ADDL2	44(WINDOW), R0	
									MOVZWL	54(WINDOW), R1	
									ADDL2	R1, R0	
									CMP	R0, #3	
									BGTRU	1\$	
									INCL	FREE_POINTERS	1174
									TSTL	FREE_POINTERS	1176
									BGTR	2\$	
									MOVL	#1, FREE_POINTERS	
									MOVL	(R7), R0	1182

51		51	38	A0	9A	00096	MOVZBL	56(R0), R1		
		51		0C	78	0009A	ASHL	#12, R1, R1		
		50	44	A0	D0	0009E	MOVL	68(R0), R0		
		51		50	D1	000A2	CMPL	R0, R1		
				03	1B	000A5	BLEQU	3\$		
		50		51	D0	000A7	MOVL	R1, R0		
		50	38	A4	C2	000AA	SUBL2	56(FCB), R0	1183	
		51		67	D0	000AE	MOVL	(R7), R1	1184	
		52	38	A1	9A	000B1	MOVZBL	56(R1), R2		
		52		50	C0	000B5	ADDL2	R0, R2		
		50	3C	A1	3C	000B8	MOVZWL	60(R1), R0		
		50		6240	DE	000BC	MOVAL	(R2)(R0), FILES_TO_GO		
				05	14	000C0	BGTR	4\$	1185	
			08D0	8F	BF	000C2	CHMU	#2256	1186	
					04	000C6	RET			
		51		67	D0	000C7	MOVL	(R7), R1	1196	
		52	3C	A1	3C	0G0CA	MOVZWL	60(R1), R2		
51	40	A1		52	C7	000CE	DIVL3	R2, 64(R1), R1		
		51		04	C6	000D3	DIVL2	#4, R1		
		52		50	D0	000D6	MOVL	FILES_TO_GO, R2		
		51		52	D1	000D9	CMPL	R2, RT		
				03	1B	000DC	BLEQU	5\$		
		52		51	D0	000DE	MOVL	R1, R2		
		50		52	D0	000E1	MOVL	R2, FILES_TO_GO	1195	
		50		55	C6	000E4	DIVL2	FREE_POINTERS, R0	1198	
	000003E8	8F		50	D1	000E7	CMPL	R0, #1000		
				05	1B	000EE	BLEQU	6\$		
		50	03E8	8F	3C	000F0	MOVZWL	#1000, R0		
	18	A6		50	D0	000F5	MOVL	BLOCKS_NEEDED, 24(FIB)	1203	
	16	A6	820B	8F	A8	000F9	BISW2	#33291, 22(FIB)	1211	
				53	DD	000FF	PUSHL	HEADER	1213	
				56	DD	00101	PUSHL	FIB		
	0000G	CF		02	FB	00103	CALLS	#2, EXTEND		
56	18	A6	1C	A6	C1	00108	ADDL3	28(FIB), 24(FIB), R6	1215	
				56	D7	0010E	DECL	FILESIZE		
18	A3	56		10	9C	00110	ROTL	#16, FILESIZE, 24(HEADER)	1216	
		50		67	D0	00115	MOVL	(R7), R0	1217	
	09	53		04	E0	00118	BBS	#4, 83(R0), 7\$		
		50	01	A6	9E	0011D	MOVAB	1(R6), R0	1218	
1C	A3	50		10	9C	00121	ROTL	#16, R0, 28(HEADER)		
		28		63	91	00126	CMPL	(HEADER), #40	1224	
				05	1F	00129	BLSSU	8\$		
	4C	A3	01	A6	9E	0012B	MOVAB	1(R6), 76(HEADER)	1226	
				53	DD	00130	PUSHL	HEADER	1231	
	0000G	CF		01	FB	00132	CALLS	#1, CHECKSUM		
	0000G	CF		00	FB	00137	CALLS	#0, WRITE_HEADER	1232	
		50		67	D0	0013C	MOVL	(R7), R0	1233	
			2C	A0	DD	0013F	PUSHL	44(R0)		
				53	DD	00142	PUSHL	HEADER		
	0000G	CF		02	FB	00144	CALLS	#2, RESET_LBN		
				53	DD	00149	PUSHL	HEADER	1234	
	0000G	CF		01	FB	0014B	CALLS	#1, WRITE_BLOCK		
				53	DD	00150	PUSHL	HEADER	1235	
	0000G	CF		01	FB	00152	CALLS	#1, INVALIDATE		
				53	DD	00157	PUSHL	HEADER	1236	
				54	DD	00159	PUSHL	FCB		
	0000G	CF		02	FB	0015B	CALLS	#2, INIT_FCB2		

0000G	CF	18	AA	DD	00160	PUSHL	24(BASE)	:	1238
			01	FB	00163	CALLS	#1, RELEASE_SERIAL_LOCK	:	
0000G	CF	18	AA	D4	00168	CLRL	24(BASE)	:	1239
			00	FB	0016B	CALLS	#0, RESTORE_CONTEXT	:	1241
		04	A8	D4	00170	CLRL	4(R8)	:	1242
				04	00173	RET		:	1244

: Routine Size: 372 bytes, Routine Base: \$CODE\$ + 0000

: 256 1245 1
: 257 1246 1 END
: 258 1247 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	372	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	49	0	1000	00:01.9

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS\$:EXTIDX/OBJ=OBJ\$:EXTIDX MSRC\$:EXTIDX/UPDATE=(ENH\$:EXTIDX)

: Size: 372 code + 0 data bytes
: Run Time: 00:20.0
: Elapsed Time: 00:38.7
: Lines/CPU Min: 3746
: Lexemes/CPU-Min: 45989
: Memory Used: 260 pages
: Compilation Complete

0170

AH-BT13A-SE
VAX/VMS V4.0

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